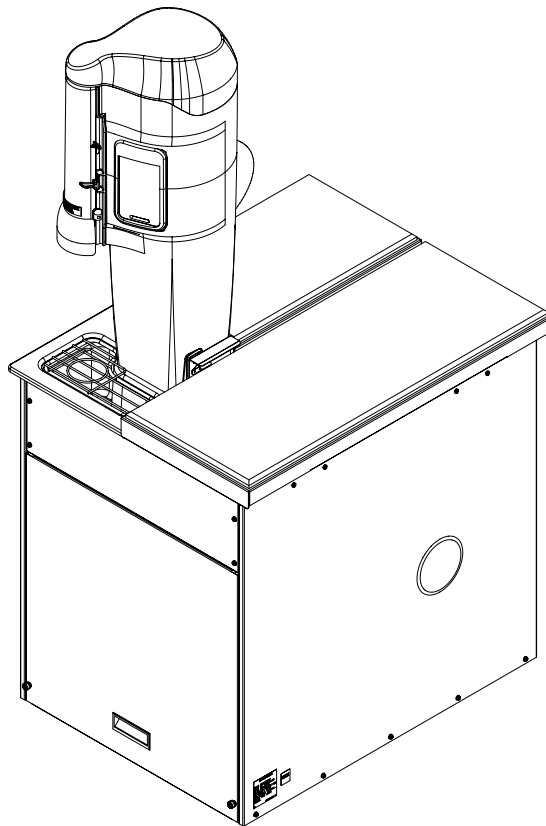




# STARBUCKS UC100 PROGATE

## Operator's Manual



Release Date: January 24, 2008

Publication Number: 621054211OPR

Revision Date: NA

Revision: A

Visit the IMI Cornelius web site at [www.cornelius.com](http://www.cornelius.com) for all your Literature needs.





## OPERATOR'S MANUAL

The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

To inquire about current revisions of this and other documentation or for assistance with any Cornelius product contact:

**[www.cornelius.com](http://www.cornelius.com)**

**800-238-3600**

Trademarks and copyrights:

Aurora, Cornelius, FlavorFusion, Hydro Boost, Optifill, Pinnacle, and Vanguard are registered trademarks of IMI Cornelius Inc.

This document contains proprietary information and it may not be reproduced in any way without permission from Cornelius.

Printed in U.S.A.

Copyright © 2008, All Rights Reserved, IMI Cornelius, Inc.



# TABLE OF CONTENTS

<b>Safety Instructions</b> .....	<b>1</b>
Read and Follow all Safety Instructions .....	1
Recognize Safety Alerts .....	1
Different Types of Alerts .....	1
Safety Tips .....	1
Qualified Service Personnel .....	1
CO2 (Carbon Dioxide) Warning .....	1
<b>Safety Precautions</b> .....	<b>2</b>
<b>Description</b> .....	<b>3</b>
Specifications .....	3
Keypad Overview .....	3
Button Description .....	3
Function Description .....	4
PR (Prime) .....	4
ICE .....	4
LOC (Lock) .....	4
FILL .....	4
<b>Start-up and Operating Instructions</b> .....	<b>5</b>
Programming the Ice Weight Portion .....	5
<b>Maintenance</b> .....	<b>6</b>
Daily (or as required) .....	6
Cleaning Exterior Surfaces .....	6
Ice Chute Maintenance .....	6
Monthly .....	7
Cleaning Interior Surfaces .....	7
<b>Troubleshooting</b> .....	<b>8</b>



# SAFETY INSTRUCTIONS

## READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Read and follow all safety instructions in this manual and on the machine (decals, labels, and laminated cards). Read and understand all applicable OSHA (Occupation Safety and Health Administration) safety regulations before operating the machine.

### Recognize Safety Alerts



This is the safety alert symbol. When you see it in this manual or on the machine be alert to the potential of personal injury or damage to the machine.

### Different Types of Alerts

There are 3 types of safety alerts:



**DANGER** — Indicates an immediate hazardous situation which if not avoided **WILL** result in serious injury, death, or equipment damage.



**WARNING** — Indicates a potentially hazardous situation which, if not avoided, **COULD** result in serious injury, death, or equipment damage.



**CAUTION** — Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury or equipment damage.

### Safety Tips

- Carefully read all safety messages in this manual and safety signs on the machine.
- Keep safety signs in good condition and replace missing or damaged safety signs.
- Learn how to operate the machine and how to use the controls properly.
- Do not let anyone operate the machine without proper training. This appliance is not intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your machine in proper working condition and do not allow unauthorized modifications to the machine.

### Qualified Service Personnel



**CAUTION** — Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. **ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES.**

### CO<sub>2</sub> (Carbon Dioxide) Warning



**WARNING** — CO<sub>2</sub> Displaces Oxygen. Strict Attention **must** be observed in the prevention of CO<sub>2</sub> gas leaks in the entire CO<sub>2</sub> and soft drink system. If a CO<sub>2</sub> gas leak is suspected, particularly in a small area, **immediately** ventilate the contaminated area before attempting to repair the leak. Personnel exposed to high concentration of CO<sub>2</sub> gas will experience tremors which are followed rapidly by loss of consciousness.

## SAFETY PRECAUTIONS

This ice dispenser has been specifically designed to provide protection against personal injury and eliminate contamination of ice. To ensure continued protection and sanitation, observe the following:

**IMPORTANT: Disconnect power to the dispenser before servicing or cleaning.**

NEVER: place hands inside of hopper or gate area without disconnecting power to the dispenser. Agitator rotation occurs automatically when dispenser is energized!

ALWAYS: be sure the removable lid is properly installed to prevent unauthorized access to the hopper interior and possible contamination of the ice.

ALWAYS: be sure the upper and lower front panels are securely fastened.

ALWAYS: keep area around the dispenser clean of ice cubes.

## DESCRIPTION

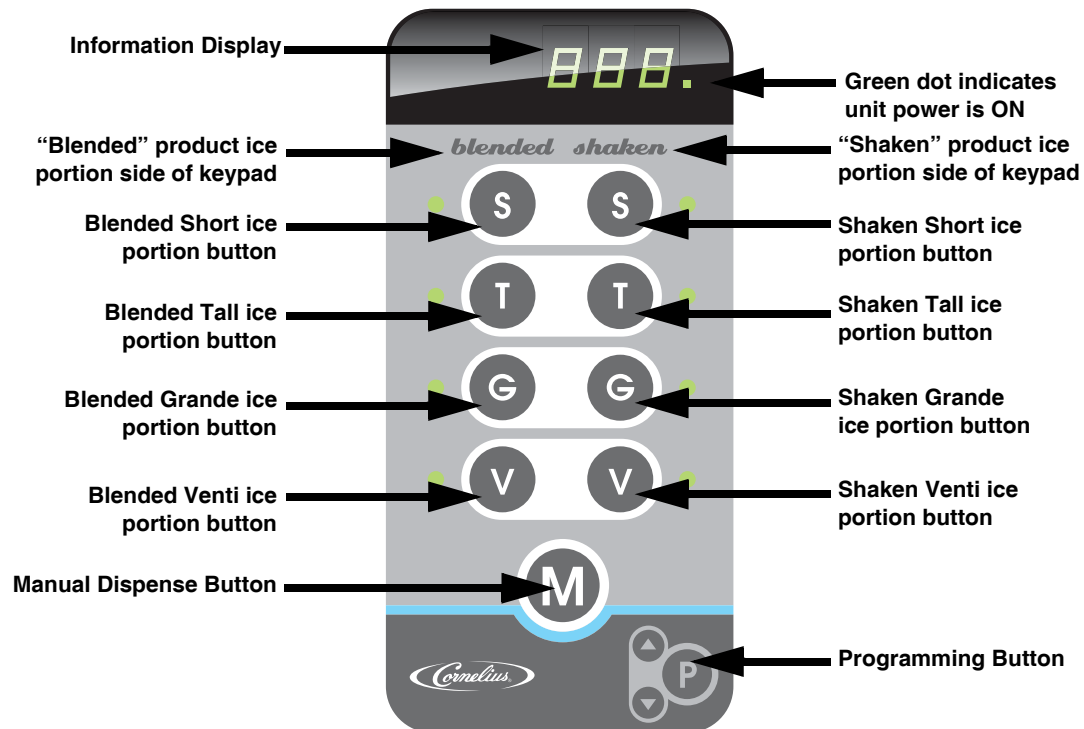
The Undercounter ice dispenser solves your ice service needs in a sanitary, space saving, economical way. Designed to be manually filled with Ice-O-Matic half cube ice.

## SPECIFICATIONS

Model:	UC100 Progate
Ice Storage:	100 lbs
Electrical:	120/1/60, 3 amps total unit draw
CO <sub>2</sub> or Air:	100 psi max to unit regulated to 50 psi (3.4 bar) to Progate ice gate system
Dimensions:	24" Wide
	30" Deep
	27" Below Countertop
	28" Above Countertop

## KEYPAD OVERVIEW

### Button Description



## Function Description

Just above the keypad is an information display that will show a code 2 through 4 letter. This code is to notify the user the status/error of the dispenser. Listed below are the codes and their meaning:

### **PR (Prime)**

This code will display when the unit has just been powered.

### **ICE**

When displayed, ice levels are low or close to empty inside the hopper.

### **LOC (Lock)**

When displayed, check to make sure that ice bin covers, ice chute transition, piece ice flapper and ice chute are attached properly. Once secured, push the "M" button on the keypad to return to dispense mode.

### **FILL**

When displayed, all ice has been consumed and needs to be replaced. Refill the ice bin. Close all ice bin covers and push the "M" button on the keypad to return to dispense mode.

### **ERR (Error)**

When displayed, a system fault has occurred. Push the "M" button on the keypad to reset the dispenser and return to dispense mode.



# START-UP AND OPERATING INSTRUCTIONS

Fill the hopper with ice and then push one of the "V" buttons on the keypad to dispense a large cup of ice. Repeat this procedure every time the dispenser has run out of ice. Dispense a large cup of ice. Repeat this procedure whenever the dispenser has run out of ice. This insures that the ice chute is completely filled before use.



**CAUTION: Use caution to avoid spilling ice when filling the dispenser. Clean up any spilled ice immediately. To prevent contamination of ice, the lid must be installed on the unit at all times.**

If the dispenser fails to dispense ice, see troubleshooting guide.

## PROGRAMMING THE ICE WEIGHT PORTION

The ice weight portion setting is factory set for each portion size or keypad button. Follow the instructions below to increase or decrease the amount of ice dispensed for a portion size.

1. Press P and Blended Short (S) buttons simultaneously until SIZE displays on the information display.
2. Press and hold the desired size you wish to program until corresponding green LED flashes.

**NOTE: The information display will now show the current value (in milliseconds) of that portion size.**

3. Press the up or down button to increase/decrease the duration of dispense. Each press will increase/decrease the duration by 5ms.
4. Press the corresponding size button currently being programed until the green LED stops flashing.
5. To save the new programmed size, press the P and the Blended Short (S) buttons simultaneously until the screen clears. If no action is taken within 60 seconds, dispense mode will resume and any changes will not be saved.

## MAINTENANCE



**WARNING: Disconnect Power Before Cleaning! Do not use metal scrapers, sharp objects, or abrasives on the ice storage hopper, top cover, and agitator disk. Do not use solvents or other cleaning agents because they may damage the plastic.**

Soap solution – Use a mixture of mild detergent and warm (100°F) potable water.

Sanitizing solution – Dissolve one packet of Kay-5 Sanitizer/Cleaner into 2-1/2 gallons of water to ensure 100 ppm of available chlorine.

The following dispenser maintenance should be performed at the intervals indicated:.

### DAILY (OR AS REQUIRED)

Remove foreign material from vending area drip tray to prevent drain blockage. Clean vending area. Check for proper water drainage from the vending area drip tray.

### Cleaning Exterior Surfaces

**IMPORTANT: Perform the following daily.**

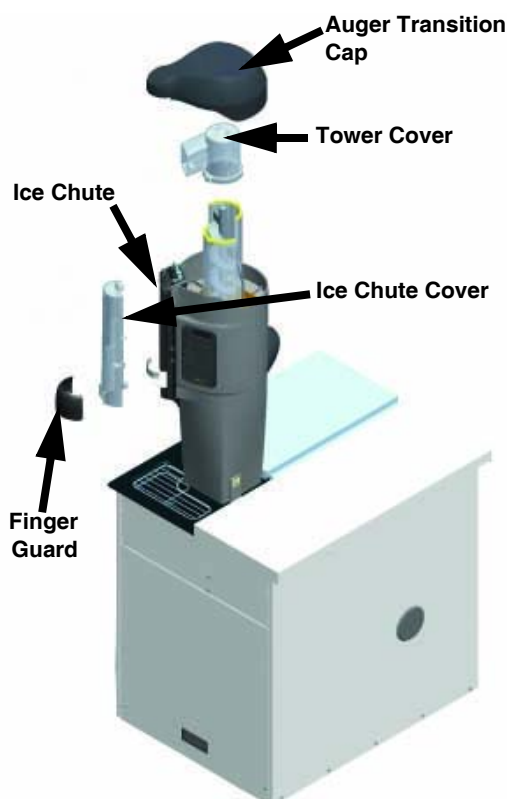
1. Remove the cup rest from drip tray.
2. Wash the drip tray with soap solution. Rinse with potable water and allow solution to run down the drain.
3. Wash cup rest with soap solution and rinse in potable water. Install the cup rest into the drip tray.
4. Clean all exterior surfaces with soap solution and rinse with potable water.

### Ice Chute Maintenance

**IMPORTANT: Perform the following daily.**

**NOTE: The ice chute has a built in safety feature which disables the unit when the ice chute cover is removed. If the ice chute cover is not properly installed, the agitator and ice chute gate will not function.**

1. Grab the ice chute cover and slide it up until it stops.
2. Pull the ice chute forward.
3. Remove the finger guard from the ice chute cover by sliding the guard upward then out.
4. Wash the ice chute, ice chute cover, finger guard, and ice level flapper with a nylon bristle brush and a clean rag using the soap solution.
5. Rinse the parts with clean potable water then rinse with sanitizing solution. Allow all parts to air dry.
6. Replace the ice chute and slide down into place.
7. If the agitator or ice chute are not working, remove the ice chute cover and replace it.
8. Reinstall the finger guard onto the ice chute cover.



## MONTHLY

Clean and sanitize the hopper interior and auger assembly.

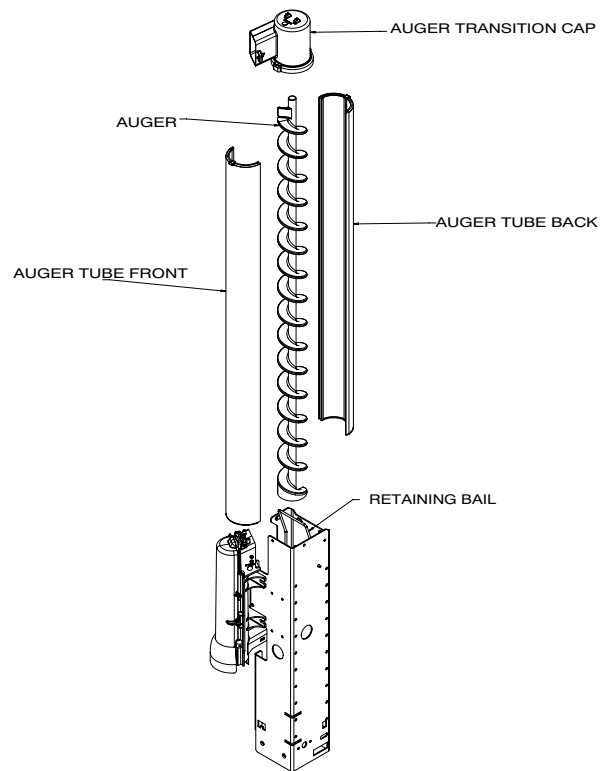
### Cleaning Interior Surfaces



**CAUTION:** When pouring liquids into the hopper, do not exceed the rate of 1/2 gallon per minute.

**IMPORTANT:** Perform the following at least once a month.

1. Open right hand hopper cover, then remove all ice from hopper.
  2. Lift up and remove the left hand hopper cover.
  3. Remove agitator disk and agitator assembly.
  4. Remove tower cover.
  5. Move the retaining bail to the rear of the tower which will allow removal of the auger transition cap.
  6. Grasp the ice auger by the shaft end and lift out the auger tube. Take care not to damage either end of the auger. The tube will separate into two halves for easy cleaning when fully removed.
  7. Remove the front panel of the cabinet below the hopper, this will give you access to the lower auger drive area and the passage between the hopper and the auger for cleaning.
  8. Using the previously prepared soap solution to clean the hopper covers, agitator disk, and agitator assembly, interior of the hopper, both halves of the ice chute, auger, auger tubes, and the lower auger area of the auger housing. Thoroughly rinse all parts with potable water. Spray all components with sanitizing solution and allow to air dry.
  9. Reassemble the agitator assembly and disc into the hopper. Make certain that the retaining screw is tight.
  10. Using a mechanical spray bottle filled with sanitizing solution, spray the entire interior of the hopper and the agitator assembly. Go to the lower auger drive area and also spray with sanitizing solution. Allow to air dry.
  11. Using the spray bottle filled with sanitizing solution, spray the inside of the two halves of the auger tube, the auger, the two halves of the chute assembly and the undersides of the right and left covers. Allow to air dry.
  12. Reassemble the two halves of the auger tube and place back into its mounting. The longer tube must be placed in front. Holding the auger by the upper shaft end, insert it into the guide tube.
- NOTE:** The bottom of the auger has a depression in the shape of a D. When replacing the auger, it will be necessary to rotate the auger after insertion in the tube to engage the motor shaft. Make certain that the auger slips into its drive pin. Auger transition cap will not assemble properly if the auger is not seated on its drive pin.
13. Replace the auger transition cap onto the auger and lock down by snapping the retaining bail onto the auger transition cap. Reinstall the tower cover.
  14. Reinstall the covers. Put the right cover on first before you close the left cover.



# TROUBLESHOOTING

**IMPORTANT:** Only qualified personnel should service internal components or electrical wiring.



**WARNING:** If repairs are to be made to the CO<sub>2</sub> or air system, stop dispensing, shut off the CO<sub>2</sub> or air supply, then relieve the system pressure before proceeding. If repairs are to be made to the ice dispensing system, make sure electrical power is disconnected from the unit.

Trouble	Probable Cause	Remedy
<b>NOTE:</b> Should your unit fail to operate properly, check that there is power to the unit and that the hopper contains ice. If the unit does not dispense, check the following chart under the appropriate symptom(s) to aid in locating the defect.		
BLOWN FUSE OR CIRCUIT BREAKER.	A. Short circuit in wiring (115V circuit). B. Defective agitator motor.	A. Contact service agent. B. Contact service agent.
SLUSHY ICE. WATER IN HOPPER	A. Blocked drain. B. Unit not level. C. Poor ice quality due to water quality or ice maker problems. D. Improper use of flaked ice.	A. Open-up/flush out drain. B. Level unit. C. Contact service agent. For icemaker problems, consult icemaker service agent. D. Replaced flaked ice with cube style ice.
NO ICE DISPENSED	A. Insufficient ice supply in ice bin. B. Ice in ice bin bridged (stuck together). C. No electrical power to dispenser. D. Insufficient or no CO <sub>2</sub> or air supply to dispenser. E. Ice chute cover not properly installed. F. Defective interlock switches. G. Defective interlock relay. H. Defective 24V transformer. I. Defective keypad. J. Defective ice gate cylinder. K. Defective ice gate solenoid valve. L. Defective agitation timer board. M. Defective agitator motor start capacitor. N. Hopper covers not properly installed/closed.	A. Replenish ice supply as required. B. Gently tap on ice to break it loose. C. Plug in dispenser power cord, or check fuse or circuit breaker. D. Restore CO <sub>2</sub> or air supply to dispenser. E. Make sure that cover is "snapped" into place. F. Contact service agent. G. Contact service agent. H. Contact service agent. I. Contact service agent. J. Contact service agent. K. Contact service agent. L. Contact service agent. M. Contact service agent. N. Make sure covers are in place and closed.
NO ICE DISPENSED FROM MANUAL ICE DISPENSE PUSHBUTTON SWITCH	A. Insufficient or no CO <sub>2</sub> or air supply to dispenser. B. Defective 24VAC transformer. C. Defective keypad. D. Defective agitator motor or start capacitor. E. Defective ice gate cylinder.	A. Restore CO <sub>2</sub> or air supply to dispenser. B. Contact service agent. C. Contact service agent. D. Contact service agent. E. Contact service agent.
ICE DISPENSING DURING AUTOMATIC AGITATION	A. Defective ice gate cylinder. B. Defective ice gate solenoid valve. C. Defective keypad.	A. Contact service agent. B. Contact service agent. C. Contact service agent.



**IMI Cornelius Inc.**  
**[www.cornelius.com](http://www.cornelius.com)**